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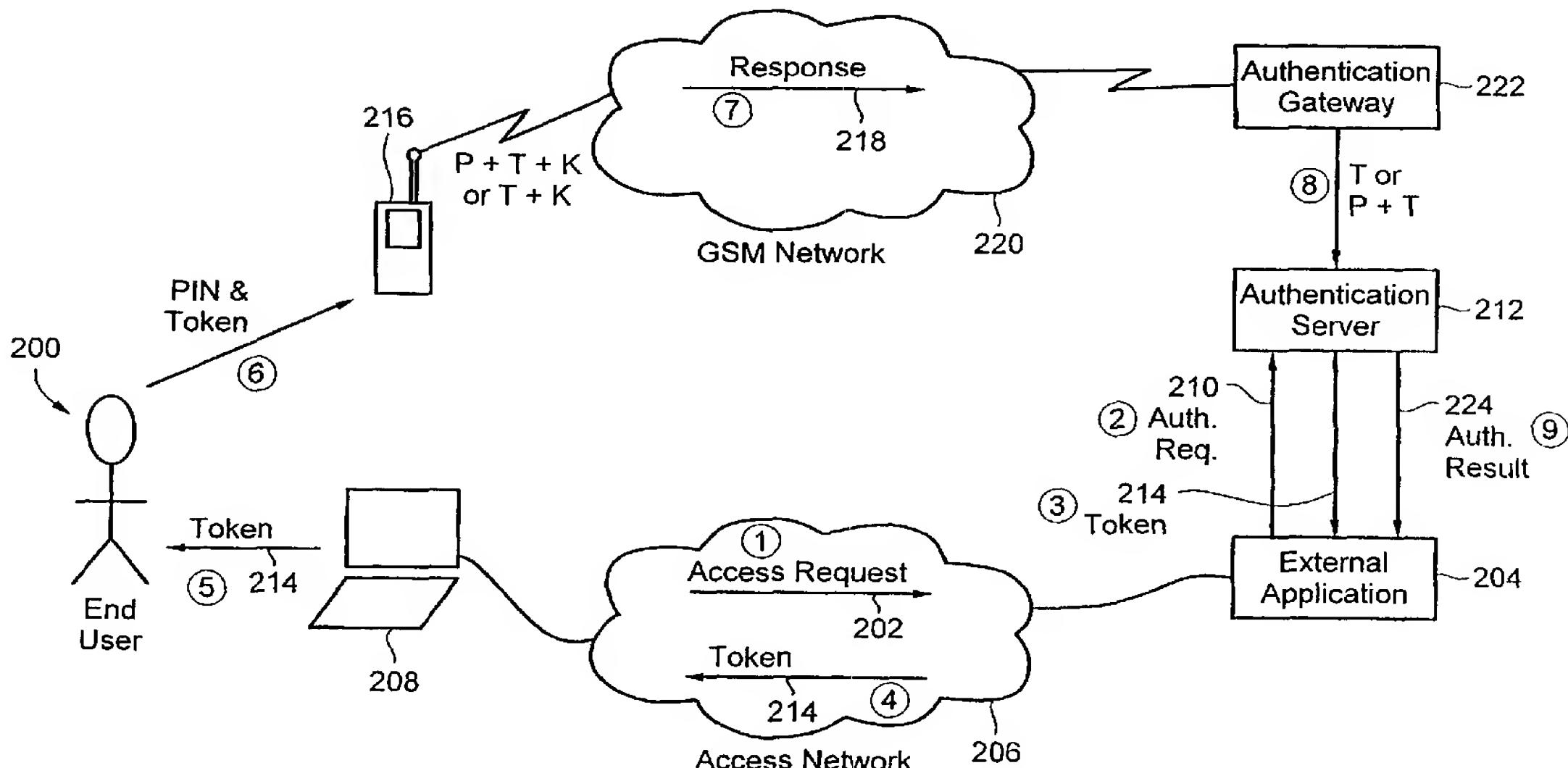
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**(54) Title: END-USER AUTHENTICATION INDEPENDENT OF NETWORK SERVICE PROVIDER**



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**(57) Abstract:** A system and method for verifying the identity of an end-user. The end-user requests to access an external application. The external application sends an authentication request to an authentication server, which generates a random token. The generated token is transmitted to the end-user. The end-user enters the generated token and a personal identification number into a cellular terminal connected to a GSM network. At least the token is encrypted using a secret key stored within the cellular terminal and transmitted through the GSM network to an authentication gateway. The token is decrypted by the authentication gateway using either the same secret key or a key matched to the secret key. The token is then transmitted to the authentication server where the received key is compared to the generated key. The results of the comparison are transmitted to the external application.



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H04L9/32 H04Q7/24 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 H04L H04Q G06F G07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 668 876 A (FALK JOHAN PER ET AL) 16 September 1997 (1997-09-16) abstract column 3, line 1 – line 50 column 4, paragraph 3 column 5, line 23 – line 55 column 8, line 41 – line 64; figure 1A ---	1-5,10, 14,15
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E	WO 02 01516 A (AUCSHITH DAVID ;INTEL CORP (US); SULLIVAN ROBERT JR (US)) 3 January 2002 (2002-01-03) abstract page 8, paragraph 4 –page 10, paragraph 1 ---	1-3

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Information on patent family members

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